

# Downloading ASCII text time-series data with **Giovanni-4**

The following slides demonstrate how to download time-series data in ASCII text format with the Giovanni-4 interface

# Step 1: Generate a time-series

**Giovanni** The Bridge Between Data and Science v 4.10 [Release Notes](#) [Browser Compatibility](#) [Known Issues](#)

**Select Plot**  
Choose a plot type.

☒ **Maps: Time-Averaged** ☐ Comparisons: Select... ☐ Time Series: Select... ☐ Vertical: Select... ☐ Miscellaneous: Select...

**Select Date Range (UTC)**  
Format: YYYY-MM-DD.  
- - 00 hrs to - - 23 hrs  
Valid Range: 1979-01-01 to 2014-11-28

**Select Variables**

▼ **Disciplines**

- ☐ Aerosols (118)
- ☐ Atmospheric Chemistry (12)
- ☐ Atmospheric Dynamics (62)
- ☐ Hydrology (16)
- ☐ Water and Energy Cycle (26)

▼ **Measurements**

- ☐ Aerosol Index (1)
- ☐ Air Pressure (4)
- ☐ Air Temperature (14)
- ☐ Albedo (5)
- ☐ Altitude (4)
- ☐ Angstrom Exponent (16)
- ☐ Atmospheric Moisture (20)
- ☐ CH4 (4)
- ☐ CO (4)
- ☐ Cloud Fraction (4)
- ☐ Cloud Properties (9)

Number of matching Variables:

Keyword:

**Time Series Choices** More...

- ☐ **Seasonal**  
Seasonal (inter annual) time series  
[Details...](#)
- ☐ **Hovmoller, Longitude-Averaged**  
Longitude-averaged Hovmoller, plotted over the selected time and latitude ranges  
[Details...](#)
- ☐ **Hovmoller, Latitude-Averaged**  
Latitude-averaged Hovmoller, plotted over the selected time and longitude ranges  
[Details...](#)
- ☐ **Difference of Area Averages**  
Time series of area averages of differences between two variables at each spatial grid point  
[Details...](#)
- ☒ **Area-Averaged**  
Time series of area-averaged values  
[Details...](#)

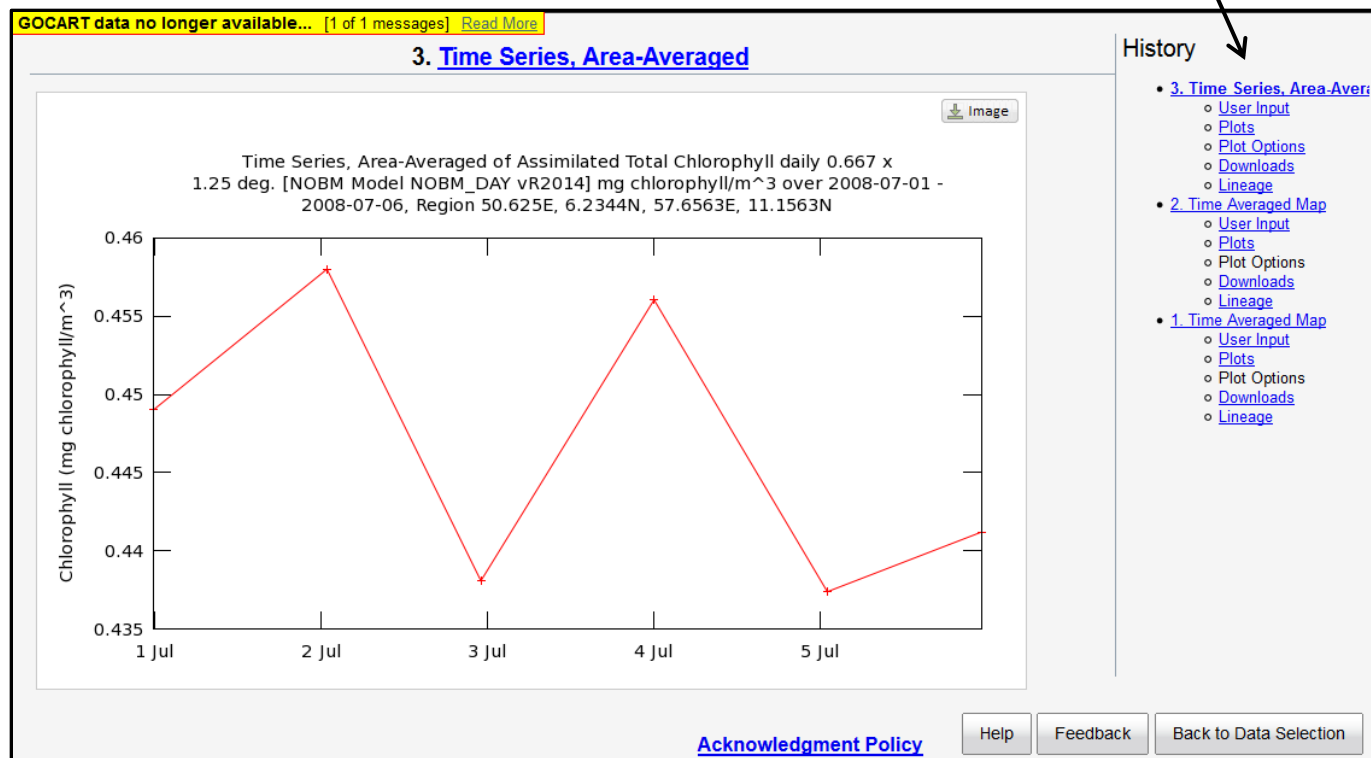
Choose an area-averaged time-series plot

Help Reset Feedback **Plot Data**

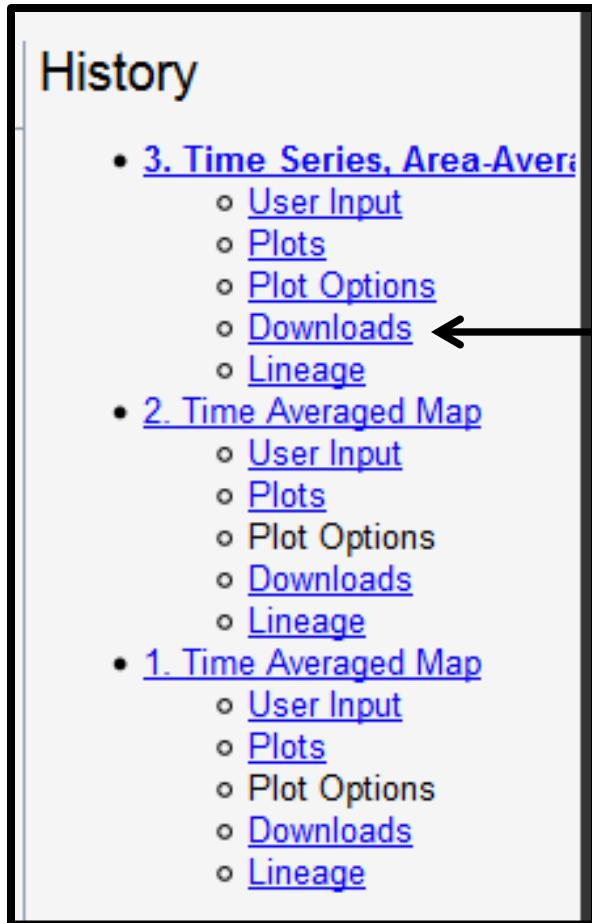
# Step 2:

## Time-series result

Below is a screen capture of a one-week time series of NASA Ocean Biogeochemical Model (NOBM) assimilated total chlorophyll off the coast of Oman for the first week of July 2008. Notice the **History** section over on the right.



# Here's a close-up of the History section.



The next step is to click on the “Downloads” link under “Time Series, Area-Averaged.”

# This is the result:

## 3. [Time Series, Area-Averaged](#)

*Click on file links to download. Files contain data portrayed in the plot images.*

ASCII CSV:

[areaAvgTimeSeries.NOBM\\_DAY\\_R2014\\_tot.20080701-20080706.50E\\_6N\\_57E\\_11N.csv](#)

Images (PNG):

[areaAvgTimeSeries.NOBM\\_DAY\\_R2014\\_tot.20080701-20080706.50E\\_6N\\_57E\\_11N.png](#)

As you can see, the ASCII text data are available for download as a “.csv” (comma-separated values) file. Clicking on the link invokes download options, one of which is to open the file in Microsoft Excel.

**If the Microsoft Excel download option is selected, the result will look similar to the spreadsheet shown below.**

	A	B	C	D	E	F	G
1	Title:	Time Series Area-Averaged of Assimilated Total Chlorophyll daily					
2	User Start	2008-07-01T00:00:00Z					
3	User End	2008-07-06T23:59:59Z					
4	Bounding	50.625,6.2344,57.6563,11.1563					
5	URL to Re	<a href="http://giovanni.gsfc.nasa.gov/giovanni/#service=ArAvTs&amp;startti">http://giovanni.gsfc.nasa.gov/giovanni/#service=ArAvTs&amp;startti</a>					
6	Fill Value:	-9999					
7							
8	time	NOBM_DAY_R2014_tot					
9	7/1/2008	0.449018					
10	7/2/2008	0.458001					
11	7/3/2008	0.438084					
12	7/4/2008	0.45604					
13	7/5/2008	0.437387					
14	7/6/2008	0.441194					
15							
16							

**End  
of  
demonstration**